

# GRIZZLY SERIES™ ZTR<sup>®</sup>

# **Operator's Manual**

GRIZZLY 52, 27 KOH/968999588 GRIZZLY 60, 27 KOH/968999590 GRIZZLY 60, 30 KOH/968999591 GRIZZLY 72, 27 KOH/968999592

Please read the operator's manual carefully and make sure you understand the instructions before using the unit.



### **IMPORTANT - READ CAREFULLY**

The Dixon® ZTR® mower is both easy and fun to operate. However, any power mower must be operated properly to be safe. It is not a toy or a recreational vehicle. Before you start to use the mower, read this Operator's Manual carefully. It contains valuable information that is necessary for the safe operation of the machine. Observe all safety rules and become completely familiar with the controls.

The information contained in this manual applies to all Dixon Grizzly™ ZTR® mowers.

See your authorized Dixon dealer for warranty service, parts and repairs or to answer any questions you may have about your new Dixon ZTR.

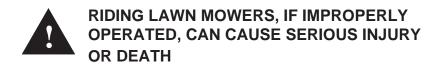
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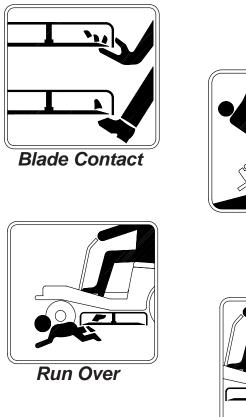
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Part Number 539 114590R1

## SAFETY



Pictured below are the most common causes of injury to the operator or bystander. Please read and understand this manual to prevent injuries.





Tip Over



SAFETY



When you see this symbol, <u>BE ALERT</u> to the potential for injury.

Follow the recommended safety precautions and safe operating practices.



### <u>DANGER</u>

(highlighted in red) indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



### WARNING

(highlighted in orange) indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



#### <u>CAUTION</u>

(highlighted in yellow) indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

**WARNING** Failure to observe the following instructions could result in serious injury or death.

### **GENERAL OPERATION**

Read, understand, and follow all instructions in this manual and on the mower before starting.

Only allow responsible adults, who are familiar with the instructions, to operate the mower.

Clear the area of objects such as rocks, toys, wire, etc., that could be picked up and thrown by the blade.

Be sure the area is clear of bystanders before mowing. Stop mower if anyone enters the area.

Never direct discharged material toward anyone. Avoid discharging against a wall or obstruction. Material may ricochet back toward the operator. Stop the blade(s) when crossing gravel surfaces.

Do not operate the mower without either the entire grass catcher or the deflector in place. This will decrease the possibility of injury from objects being thrown by the mower blades.

Never carry passengers.

Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.

Never leave a running mower unattended. Always turn off blades, set park brake, stop engine and remove key before dismounting.

Turn off blades when not mowing. Injury could occur from contact with moving parts.

<u>Under no circumstances</u> should you place hands or feet under the mower deck or in the chute while blades or impeller are still running.

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**WARNING** Failure to observe the following instructions could result in serious injury or death.

### **GENERAL OPERATION (continued)**

To avoid personal injury from accidental clutch engagement, stop engine before removing grass catcher or unclogging chute.

Mow only in daylight or good artificial light.

Do not operate the mower while under the influence of alcohol or drugs.

Slow down before turning to reduce the risk of tip-over.

Watch for traffic when operating near or crossing roadways.

Use extra care when loading or unloading the mower into a trailer or truck. Push, do not ride the mower when loading and unloading.

Protect your eyes. Always wear safety goggles or safety glasses with side shields when operating mower.

Data indicates that operators, age 60 years and above, are involved in a large percentage of riding mower-related injuries. These operators should evaluate their ability to operate the riding mower safely enough to protect themselves and others from serious injury.

To protect against possible tip-over, follow the manufacturer's recommendation for wheel weights and counterweights.

Maintain or replace safety and instruction labels as needed.



WARNING Failure to observe the following instructions could result in serious injury or death.

### **SLOPE OPERATION**

Slopes are a major factor related to loss-of-control and tipover accidents, which can result in severe injury or death. All slopes require extra caution. If you feel unsure on any slope, do not mow it!

#### <u>D0</u>

Mow up and down the slope with your Dixon ZTR — never across. This will decrease the risk of tip-over.

Remove obstacles such as rocks, tree limbs, wires and other foreign objects that can be thrown by mower blades.

Watch for holes, ruts, roots and bumps, and uneven terrain that could overturn the mower. Tall grass can hide such obstacles.

Use slow speed. Tires may lose traction on slopes even though the brakes are functioning properly.

Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly down the slope.

Keep all movement on the slopes slow and gradual. Do not make sudden changes in speed or direction.

Use extreme caution when operating the mower with attachments to prevent tip-over or roll-over.

If front wheels lift off the ground, pull levers back to stabilize the mower. Discontinue mowing the slope!

**WARNING** Failure to observe the following instructions could result in serious injury or death.

### **SLOPE OPERATION** (continued)

#### <u>DO NOT</u>

Do not turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible. Rapid uphill turns may cause tipover.

Do not mow near drop-offs, ditches, or embankments. Unstable ground may cause loss of control.

Do not mow on wet grass. Reduced traction could cause sliding.

Do not try to stabilize the mower by putting your foot on the ground.

Do not use grass catcher or other attachments on steep slopes. The added weight may change the stability of the mower, creating the potential for tip-over.

**WARNING** Failure to observe the following instructions could result in serious injury or death.

### **ROLL OVER PROTECTION SYSTEM (ROPS)**

The ROPS increases the basic weight of the unit by 42 lbs/19 kg. The ROPS on the US units are standard, on the European unit the ROP is an accessory.

The ROP's capability may be impaired by structural damage if overtumed or alterations are made. Do not make changes to the structure and if any damage occurs, replace the entire ROPS unit.

- Do not use ROPS as a lifting, attaching or anchoring point.
- Do not use ROPS for wrecking or towing.
- Do not exceed maximum gross vehicle weight of 2822 lbs. (1283 kg).
- Securely fasten your seat belt if the unit has a ROPS.
- Where possible, avoid operating the mower near ditches, embankments or holes.
- Reduce speed when turning, crossing slopes and on rough, slick or muddy surfaces.
- Stay off slopes too steep for safe operation.
- Watch where you are going, especially at row ends, on roads and around trees.
- Do not permit others to ride.

### ROLL OVER PROTECTION SYSTEM (ROPS) (continued)

- Operate the mower smoothly no jerky turns, starts or stops.
- When mower is stopped, set brakes securely and use park brake.
- If any part of ROPS is damaged, the entire ROPS must be replaced.
- Check all bolts, including seat belt, for correct torque before each use.
- Check ROPS structure for damage before each use.
- ROPS bar is NOT intended for use in sub zero temperatures.

#### **Owner/operator responsibilities**

- Read and observe the safety rules.
- Follow a regular schedule in maintaining, caring for and using your mower.
- Follow the instructions under "Maintenance" and "Storage" sections of this owner's manual.

**WARNING** Failure to observe the following instructions could result in serious injury or death.

### **FIRE HAZARDS**

Use extra care when handling gasoline and other fuels. They are flammable and vapors are explosive.

Store all fuel in approved containers specifically designed for that purpose.

Allow engine to cool before refueling. Never remove fuel cap or add fuel with engine running.

Do not smoke while refueling or operating the mower.

To reduce fire hazard, keep mower free of grass, leaves and other debris buildup.

If gasoline is spilled, do not attempt to start the engine. Move mower away from the area of the spill. Do not create any source of ignition until gas vapors have dissipated. Wipe up spilled fuel and dispose of waste properly.

If fuel is spilled on clothing, change clothing immediately.

Before storing, allow mower to cool. Clean fuel and oil spillage.

Never store the mower or fuel container inside a building where there is an open flame.

**WARNING** Failure to observe the following instructions could result in serious injury or death.

### FIRE HAZARDS (continued)

To prevent fire or explosion, keep sparks and open flames away from battery.

Keep electrical connections clean and tight. Inspect them often. Loose connections and corrosion increase fire risk.

Before disconnecting the negative ground cable, make sure all switches are off. This decreases the chance of sparking and fire.

Use care when backing to avoid pushing the grass bags into the frame or "hot" exhaust muffler of the engine. Fire could result.

To prevent fire and explosion caused by static electricity:

Never fill containers inside a vehicle or on a truck or trailer bed with a plastic liner. Always place containers on the ground away from your vehicle before filling.

When practical, remove fuel powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, refuel such equipment on a trailer with a portable container, rather than from a fuel dispenser nozzle.

If a fuel dispenser nozzle must be used, keep the nozzle in contact with the rim of the fuel tank or container opening at all times until fueling is complete. <u>Do not</u> use a nozzle lock-open device.

**WARNING** Failure to observe the following instructions could result in serious injury or death.

### CHILDREN, BYSTANDERS AND PETS

Tragic accidents can occur if the operator is not alert to the presence of children, bystanders and pets.

Children are attracted to lawn mowers and the mowing activity.

NEVER assume children, bystanders and pets will stay where they were last seen.

#### Be alert to avoid accidents.

Keep bystanders and pets out of the mowing area and keep children under the watchful care of another responsible adult.

Be alert and turn mower off if bystanders, children or pets enter the area.

Before and during backing look BEHIND and DOWN for small children.

Never carry children as passengers. They may fall off and be seriously injured or interfere with safe mower operation.

Never allow children to operate the mower.

Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.

**WARNING** Failure to observe the following instructions could result in serious injury or death.

### SERVICE

Never run a mower inside a closed area or without proper ventilation.

Keep nuts and bolts tight, especially blade attachment bolts, and keep equipment in good condition.

Never tamper with safety devices. Check their proper operation regularly.

Stop and inspect the equipment if you strike an object. Repair, if necessary, before restarting.

Never make adjustments or repairs with the engine running unless otherwise specified.

Grass catcher components are subject to wear, damage and deterioration that could expose moving parts or allow objects to be thrown. Frequently check components. Replace with original equipment parts when necessary.

When servicing blades, wrap blades or wear gloves, and use extra caution.

Batteries contain sulfuric acid. To prevent burns, avoid contact with skin, eyes and clothing.

#### DIXON<sup>®</sup> ZTR<sup>®</sup> PRO SERIES COMMERCIAL / RESIDENTIAL WARRANTY POLICY Black Bear<sup>™</sup>, Kodiak<sup>®</sup>, Mountain Kodiak<sup>®</sup>, Kodiak<sup>®</sup> Diesel, Grizzly<sup>™</sup> & SilverTip<sup>™</sup>

DIXON® WARRANTS ITS ZTR® MOWERS AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP FOR THE PERIODS SET FORTH BELOW. THE SOLE REMEDY UNDER THIS WARRANTY IS REPLACEMENT OR REPAIR OF PARTS INCLUDING LABOR COSTS. THIS WARRANTY IS SUBJECT TO THE FOLLOWING CONDITIONS AND LIMITATIONS:

- COMMERCIAL WARRANTY (use other than, or in addition to, mowing at owner's primary place of residence):
  - First two years 100% parts and labor subject to the conditions and limitations described herein with the exception of non-covered items specified below.
  - b. Third year limited to 100% parts cost as shown in the current Dixon<sup>®</sup> Parts Price List and subject to the conditions and limitations as described herein.
  - c. Attachments marketed through or approved by Dixon are warranted for one year parts and labor in commercial use applications.
  - d. Pro Series Models are not subject to hour meter restrictions.
  - e. Warranty applies to new mowers.
- 2. RESIDENTIAL WARRANTY (used only at owner's primary place of residence):
  - a. Three years 100% parts and labor subject to the conditions and limitations described herein for a period of three years from date of purchase by the original owner.
  - b. Attachments marketed through or approved by Dixon are warranted for two years parts and labor in residential useapplications.
  - c. Warranty applies to new mowers.
- 3. Lifetime warranty on all frames and leading edge of all fabricated (welded) decks.
- All Dixon<sup>®</sup> warranty must be accomplished by authorized Dixon<sup>®</sup> dealers and in accordance with Dixon<sup>®</sup> warranty policy and allowances. All warranty claims must be submitted to Dixon for approval.
- 5. Warranty labor reimbursement to dealers based on published Dixon® flat rate schedule.
- 6. Warranty does not apply to damage in transit or incidents of misuse, negligence, accidents, or alteration. The use of parts or components other than those supplied by Dixon VOIDS ALL WARRANTY.
- 7. Battery warranty is limited to 1 year from mower manufacture date.
- 8. The following items are not covered by this warranty policy:
  - a. Routine maintenance or adjustments to include any oils, filters or other fluids used.
  - b. Belts, blades, tires and cosmetic appearance (paint, seat fade, etc.)
  - c. Pick up and delivery charges for transportation of mower to and from an authorized Dixon® dealer's place of business.
  - d. Engines. These are covered under a separate warranty by each individual engine manufacturer. Consult engine manual for warranty details.
  - e. Any costs or expense of providing substitute equipment while repair work is being performed on a warranted mower.
- 9. THERE IS NO OTHER EXPRESS WARRANTY. TO THE EXTENT PERMITTED BY LAW, ALL IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXCLUDED; OTHERWISE, ALL SUCH IMPLIED WARRANTIES ARE LIMITED TO THE SAME DURATION AND REMEDIES AS THE EXPRESS WARRANTY. ALL LIABILITIES FOR CONSEQUENTIAL DAMAGES UNDER ANY EXPRESS OR IMPLIED WARRANTY ARE EXCLUDED.

GRIZZLY<sup>™</sup> 52 Model 968999588

Chassis:	10 gauge sides with 7	gauge cross members

- Mower Deck: Made of 11 gauge fabricated welded construction with external reinforcement ribs. Three blades combine for a 52" (132 cm) cut width. Cut height approximately 1½" (38mm) to 6" (152 mm) via 18 position lift handle with foot assist.
- Blade Drive: Electric clutch
- Drive System: Each rear wheel is independently driven by a Hydro Gear hydrostatic drive 10cc pump and TL 240 wheel motor.
- Engine: 27 HP Kohler, twin cylinder, overhead valve, air cooled, gasoline, full pressure lube with oil filter.
- StartingElectric-key switch operation with safety interlocksSystem:on park brake and blade drive clutch.
- Tires:Front13 x 6.5 x 6 smooth treadRear23 X 9.5 X 12 Turf pneumatic
- Capacities: Fuel 11 gallon (42 liters) approximately Hvdrostat Fluid tank 2 gts (1.8 liters) with inline 25 micron filter and 15W50 synthetic hydrostatic oil 2 qts. (1.8 liters) SAE 10W30 oil Engine Oil with filter Dimensions: Width 50" (127 cm) 48" (122 cm) Height Length 84" (214 cm) 1140 lbs. (517 kg) Weight

Additional information may be provided elsewhere in this manual.

GRIZZLY™ 60 Model 968999590

10 gauge sides with 7 gauge cross members Chassis: Made of 11 gauge fabricated welded construction Mower Deck: with external reinforcement ribs. Three blades combine for a 60" (152 cm) cut width. Cut height approximately 11/2" (38mm) to 6" (152 mm) via 18 position lift handle with foot assist. Electric clutch Blade Drive: Each rear wheel is independently driven by a Drive System: Hydro Gear hydrostatic drive 10cc pump and TL 240 wheel motor. 27 HP Kohler, twin cylinder, overhead valve, air Engine: cooled, gasoline, full pressure lube with oil filter. Electric-key switch operation with safety interlocks Starting on park brake and blade drive clutch. System: Front 13 x 6.5 x 6 smooth tread Tires: Rear 24 X 12 X 12 Turf Master Fuel 11 gallon (42 liters) approximately Capacities: Hydrostat Fluid tank 2 qts (1.8 liters) with inline 25 micron filter and 15W50 synthetic hydrostatic oil 2 qts. (1.8 liters) SAE 10W30 oil Engine Oil with filter Width 54" (137 cm) Dimensions: 48" (122 cm) Height 84" (214 cm) Lenath 1150 lbs. (522 kg) Weight

Additional information may be provided elsewhere in this manual.

GRIZZLY™ 60 Model 968999591

- Chassis:10 gauge sides with 7 gauge cross membersMower Deck:Made of 11 gauge fabricated welded construction<br/>with external reinforcement ribs. Three blades<br/>combine for a 60" (152 cm) cut width. Cut height<br/>approximately 1½" (38mm) to 6" (152 mm) via 17<br/>position lift handlewith foot assist.Blade Drive:Electric clutch
- Drive System: Each rear wheel is independently driven by a Hydro Gear hydrostatic drive 10cc pump and TL 240 wheel motor.
- Engine: 30 HP Kohler, twin cylinder, overhead valve, air cooled, gasoline, full pressure lube with oil filter.
- StartingElectric-key switch operation with safety interlocksSystem:on park brake and blade drive clutch.
- Tires:Front13 x 6.5 x 6 smooth treadRear24 X 12 X 12 Turf Master
- Fuel 11 gallon (42 liters) approximately Capacities: Hydrostat Fluid tank 2 gts (1.8 liters) with inline 25 micron filter and 15W50 synthetic hvdrostatic oil 2 gts. (1.8 liters) SAE 10W30 oil Engine Oil with filter Width 54" (137 cm) Dimensions: 48" (122 cm) Height 84" (214 cm) Length 1150 lbs. (522 kg) Weight

Additional information may be provided elsewhere in this manual.

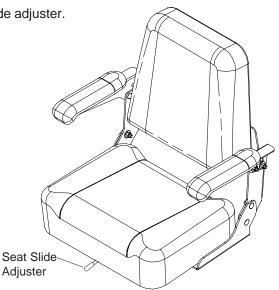
GRIZZLY™ 72 Model 968999592

Chassis:	10 gauge sides with 7 gauge cross members		
Mower Deck:	Made of 11 gauge fabricated welded construction with external reinforcement ribs. Three blades combine for a 72" (183 cm) cut width. Cut height approximately 1½" (38mm) to 6" (152 mm) via 17 position lift handle with foot assist.		
Blade Drive:	Electric clutch		
Drive System:	Each rear wheel is independently driven by a Hydro Gear hydrostatic drive 10cc pump and TL 240 wheel motor.		
Engine:	30 HP Kohler, twin cylinder, overhead valve, air cooled, gasoline, full pressure lube with oil filter.		
Starting System:	Electric-key switch operation with safety interlocks on park brake and blade drive clutch.		
Tires:		6.5 x 6 smooth tread 12 X 12 Turf Master	
Capacities:	Fuel Hydrostat Fluid tank Engine Oil	<ul> <li>11 gallon (42 liters) approximately</li> <li>2 qts (1.8 liters) with inline 25 micron filter and 15W50 synthetic hydrostatic oil</li> <li>2 qts. (1.8 liters) SAE 10W30 oil with filter</li> </ul>	
Dimensions:	Width Height Length Weight	52" (132 cm) 48" (122 cm) 86" (218 cm) 1200 lbs. (544 kg)	

Additional information may be provided elsewhere in this manual.

## SEAT ADJUSTMENT INSTRUCTIONS

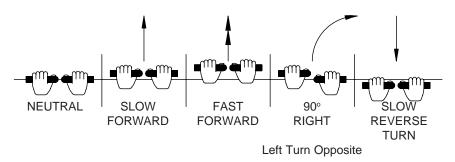
- 1. Grasp seat slide adjuster and move it into adjustment position.
- 2. Slide seat forward or backward.
- 3. Release seat slide adjuster.



## CONTROLS

### **CONTROL LEVERS**

For access to the seat, move control levers to neutral position and swing them outward.



#### TO GO FORWARD

- From neutral position, gently push control levers forward.
- To increase speed, move levers further forward.

#### TO GO BACKWARDS

• From neutral position, gently pull control levers toward you.

#### TURNING

- Turning is controlled by moving one control lever slightly forward or rearward of the other.
- To turn left, move left lever rearward of the right lever.
- To turn right, move right lever rearward of the left lever.
- To turn on mower's own axis (zero turning radius), stop and move one lever to reverse position and the other to forward position.

#### BRAKING

• To brake mower, move both levers in direction opposite of travel.

NOTE: The pressure required to operate the mower is very light.

## CONTROLS

### PARK BRAKE

The park brake is designed to hold the mower from moving and is not intended for use in stopping the mower while it is in motion. The engine will stop if the park brake is engaged while the control levers are in the drive position.



### TO SET PARK BRAKE

The hand-operated park brake is located on the left hand side.

- •To engage brake, pull lever up (to the rear).
- •To release brake, move lever forward (down).
  - NOTE: Always set park brake before dismounting. Release park brake before moving mower.



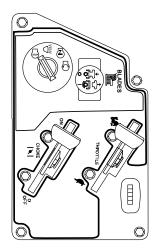
## CONTROLS

### **BLADE DRIVE**

- Located on the control panel, on operator's right.
- To engage the mower blade, pull up on the switch.
- To disengage mower blade, push down.

### CHOKE AND THROTTLE CONTROL LEVER

- Located on control panel to operator's right.
- Throttle control for engine speed.
- Choke for engine starting.
- Throttle control should be set to MAXIMUM or wide open setting to insure adequate cooling of the engine and to maintain mower deck blade speed while mowing.



### MOWER DECK CUT HEIGHT LIFT LEVER

The lifting lever is used to place the mower deck in the transport position or one of the 18 different cutting heights.

The cutting height is set by placing a peg in the hole for the desired cutting height and the peg is then locked on the inside with the supplied pin.

- To set the deck in the transport position, squeeze the underpin upwards to the lift handle and pull the lever backward to the locked position (raised).
- 2. To set the deck for mowing, select the desired mowing height and place the lock pin into the matching hole. Secure on the inside with hairpin cotter. Squeeze the underpin upwards to the lift handle and push the lever forward to the lock pin. Release the lift handle.
- The lift lever can also be used to temporarily adjust the cutting height, such as when passing a minor bump in the lawn.

The safe and successful operation of the GRIZZLY will depend on the operator having the correct knowledge of all controls used on the mower and making good judgements about the terrain to be mowed.

*NEVER* allow anyone without complete knowledge of all controls and their functions to operate the mower.

During initial operation, "learning to drive", set throttle at slow speed.

Sound judgement by the operator will prevent accidents.

### **BEFORE OPERATING MOWER**

- 1. Read engine manufacturer's operating and maintenance instructions.
- 2. Read and observe all safety instructions on your mower and in the manual.
- 3. Check engine oil.
- 4. Check fuel cap to be sure it is in place.
- 5. Be sure park brake is on.
- 6. Be sure mower blade drive is off.
- 7. Know how to stop engine. (Turn key to OFF position).

**CAUTION** Failure to observe the following instructions could result in personal injury.

### STARTING INSTRUCTIONS

- 1. Park brake must be on, control levers in outward position with the operator sitting on the seat, and blade drive disengaged.
- 2. Position throttle to desired speed setting. If engine is cold, position choke lever in the ON position.

NOTE: Engine may require partial choke setting to start even if the engine has been operated for a period of time.

- 3. Insert ignition key and turn to START position. When engine starts, release ignition key. Key will return to RUN position.
- 4. Return choke to OFF position, if applicable.
- 5. Move throttle to maximum speed position.
- 6. Release park brake.
- 7. Swing levers inward.
- 8. Operate mower per CONTROL instructions on Page 25.

**CAUTION** Do not operate the engine in an enclosed area due to the harmful exhaust gas produced.

Note: When mowing with blades engaged, set throttle control to the MAXIMUM or wide open setting to insure adequate cooling of the engine and to maintain mower deck blade speed.

### **TESTING OF SAFETY INTERLOCK SYSTEMS**

**WARNING** Failure to observe the following instructions could result in serious injury or death.

## The following tests should be performed at the start of each mowing day.

#### PARK BRAKE SWITCH TEST

- 1. Swing control levers to outward position.
- 2. Disengage blade drive.
- 3. Put park brake in OFF position.
- 4. Turn ignition switch to START.

#### Engine should not turn over or attempt to start.

### **CONTROL LEVER SWITCH TEST**

- 1. Disengage blade drive.
- 2. Put park brake in ON position.
- 3. Swing control levers inward.
- 4. Turn ignition switch to START.

#### Engine should not turn over or attempt to start.

NOTE: If any safety check fails, do not operate the mower until the system has been checked and repaired by an authorized Dixon dealer.

### **TESTING OF SAFETY INTERLOCK SYSTEMS**

**WARNING** Failure to observe the following instructions could result in serious injury or death.

## The following tests should be performed at the start of each mowing day.

#### **BLADE DRIVE SWITCH TEST**

- 1. Put park brake in ON position.
- 2. Swing control levers to outward position.
- 3. Engage blade drive.
- 4. Turn ignition switch to START.

#### Engine should not turn over or attempt to start.

### SEAT SWITCH TEST

- 1. In a SAFE AREA away from bystanders, start the engine.
- 2. Leave control levers in outward position and put park brake ON position.
- 3. Engage blade drive.
- 4. Raise slightly off seat. Engine should stop!
  - NOTE: If any safety check fails, do not operate the mower until the system has been checked and repaired by an authorized Dixon dealer.

### MOWING WITH A MULCHING ATTACHMENT

Mulching or recycling the grass clippings requires a totally different mowing approach than would be normal when side discharging or bagging the grass. There may be instances or conditions where it is not possible to hide all the recycled or mulched clippings.

In order to achieve the best results, please read and follow the mulching tips listed below:

- 1. Read and follow the installation instructions that are included with your mulcher.
- 2. Set the engine speed control to the wide open or full setting.
- Place the mower deck cut height selector in either the top or second notch. Never cut more than <sup>3</sup>/<sub>4</sub>" (19 mm) to 1" (25mm) off the grass at any one time. Attempting to cut more grass will result in the deck plugging and cause the engine to stall.
- It may be necessary to cut the lawn twice to achieve acceptable mulching performance especially on first cuttings or if the lawn is heavily fertilized.
- 5. Do not attempt to cut grass when it is wet. Mulching performance will be very poor in wet grass conditions.
- 6. *Maintain sharp blades throughout the cutting season.* This is very important. Optimal mulching performance cannot be obtained with a dull or nicked blade.

### MOWING WITH A MULCHING ATTACHMENT (continued)

- 7. Keep the underside of the mower deck clean. Remove all grass and dirt buildup from the underside of the pan, the baffles and deflectors after each use. Never, under any circumstances, should you place hands or feet under the mower deck or in the chute while blades or impeller are still turning.
- 8. Alternate mower direction. This will evenly disperse the mulched grass clippings over the lawn for even fertilization.

If the mulching quality of the mower does not seem to be satisfactory, try one or more of the following tips:

- Raise the height-of-cut setting on your mower.
- Cut grass more frequently.
- Operate the mower at a slower ground speed.
- Overlap cutting swaths instead of cutting a full swath with each pass.
- Mow across the marginal areas a second time.
- CUT HIGH MOW OFTEN!

### MOWING WITH A GRASS CATCHER ATTACHMENT

In order to achieve optimum performance when mowing with a grass catching attachment, please read and follow the tips listed below.

- 1. Read and follow the installation instructions that are included with your grass catcher.
- 2. Set engine speed control to the wide open or full setting.
- Do not attempt to cut grass when it is wet. Wet grass will clog both the underside of the deck and the attachment chutes. Empty bags often to prevent plugging.
- 4. If the grass is tall, place the mower deck cut height selector in the top or second notch. "Initially" overlap cutting swaths instead of a full swath with each pass.
- 5. Keep the underside of the mower deck clean. Frequent removal of dried grass and dirt will greatly assist in bagging of the clippings. Never, under any circumstances, should you place hands or feet under the mower deck or in the chute while blades or impeller are still turning.
- 6. Operate the mower at a slower ground speed than when mowing without a grass catching attachment.

### **MOWING WITH A GRASS CATCHER ATTACHMENT (continued)**

- 7. Maintain sharp blades throughout the cutting season. Some grass catching attachments require a "high-lift" blade. See your dealer for advice on the type of blade(s) needed for your mower.
- Some mowing applications or use of grass catchers may require that an additional weight kit be fitted to the mower to counter the weight of grass in the bags. Please consult with your dealer for more information regarding installation and adding weight to the box.
- 9. Ensure mower is equipped with an approved, dealer-installed roll-over protection and seat belt kit.



**WARNING** Failure to observe the following instructions could result in serious injury or death.

- Watch for low hanging branches or other obstacles that might hit the catcher top while turning or backing the mower.
- Use care when backing to avoid pushing the grass bags into • the frame or "hot" exhaust muffler of the engine. Fire could result.
- Disengage blade and stop engine prior to clearing grass from either the discharge chute or grass catcher components.
- Do not operate the mower with the grass catching attachment • partially removed. Operator or bystanders could be injured by thrown objects.
- Keep all attachment bolts tight. •
- Important: Do not leave clippings in the bags while the mower is • stored. Damp grass clippings are a fire hazard if left in the bag.

### SIDE DISCHARGE OF THE CLIPPINGS

In order to achieve optimum performance when side discharging the grass clippings, please read and follow the tips listed below. Additional information can be found in the Troubleshooting Guide.



To avoid personal injury, be sure that the deflector is properly installed on the discharge chute.

- 1. Set engine speed control to the wide open or full setting.
- 2. Do not attempt to cut grass when it is wet. Wet grass will clog the underside of the deck and discharge area.
- 3. If the grass is tall, place the mower deck cut height lever in the top or second notch. "Initially" overlap cutting swaths instead of a full swath with each pass. Some applications may require a second cutting.
- 4. Keep the underside of the mower deck clean. Frequent removal of dried grass and dirt will allow the clippings to discharge correctly. Never, under any circumstances, place your hands or feet under the mower deck or in the chute while blades or impeller are still turning.
- 5. Maintain sharp blade(s) throughout the cutting season.

# **OPERATION INSTRUCTIONS**

### **GRASS HEIGHT AND CUTTING SUGGESTIONS**

Do not attempt to cut grass when it is wet.

If the grass is tall, place the mower deck cut height lever in the top or second notch. "Initially" overlap cutting swaths instead of a full swath with each pass. Some applications may require a second cutting.

Keep the underside of the mower deck clean.

Maintain sharp blades throughout the cutting season.

As a rule of thumb, never cut off more than one third of the total grass blade length. Correct mowing height can reduce weeds and disease by 50% to 80%.

The following grass cut heights are based on adequate moisture conditions and normal thatch buildup in a healthy lawn. Some locations and applications may require slightly different cut heights. If in doubt, consult your local lawn professional for assistance.

<u>Grass Types</u>	Best Cut Heig	<u>hts</u>
Bermudagrass	1 - 2"	(25-51 mm)
Bluegrass	2 - 3"	(51-76 mm)
Buffalograss	1½ -3"	(38-76 mm)
Ryegrass	2 - 3"	(51-76 mm)
Tall Fescue	3-31⁄2"	(76-89 mm)
Zoysiagrass	1 - 3"	(25-76 mm)

# **OPERATION INSTRUCTIONS**

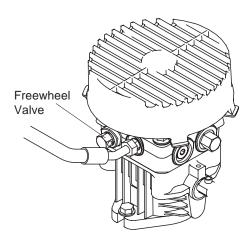
## TOWING TRAILERS AND OTHER ATTACHMENTS

Towing a trailer or other attachment that is too heavy could damage the drive or cause the mower to become unstable. Limit loads to 250 pounds (113 kg) or less with this mower.

### To Free Wheel Machine (Unlock Transmission)

When pushing or pulling the mower, be sure to engage the hydro release levers. Always turn off engine before engaging or disengaging the hydro release (free wheel) lever. Never attempt to move the lever with the engine running.

- 1. Raise the deck to the highest cutting position.
- The hydro release valves are located behind the seat, on the front side of the hydro pumps.
- To access the release valves, lift the seat frame assembly.
- With a <sup>5</sup>/8" wrench, rotate bolt counter-clockwise two full turns to disengage pump.
- 5. Repeat procedure for opposite pump.
- 6. To engage, rotate each pump bolt clockwise until bolt is snug.
  - NOTE: Before pushing or towing tractor, transmission must be unlocked and park brake released. The tractor should never be pulled at more than 2 miles per hour (3.2 km/h) or for distances over ¼ mile (.402 km). Trailer the unit for distances over ¼ mile.



**CAUTION** Failure to observe the following instructions could result in personal injury.

Before performing any maintenance, turn off engine, allow to cool and remove key. Use extreme care when working on machinery. Do not wear watch or jewelry. Do not wear loose fitting clothes, and observe all common safety practices with tools

### MAINTENANCE SCHEDULE

Adjust traction drive idler	after 5 hours break-in
Check deck serpentine belt	after 20 hours break-in
Check crankcase oil level	before each use
Clean grass from hydrostat fans	before each use
Clean grass, debris from muffler & man	ifold area before each use
Clean grass under deck	after each use
Check tire pressure	every 10 hours
Inspect blades for sharpness	every 10 hours
Check hydrostatic transmission fluid	every 25 hours
Clean air filter element	every 25 hours
• Check traction drive idler adjustment	every 50 hours
Grease all zerks	
Check all belts	every 50 hours
• Change engine crankcase oil & filter	5 hours break-in and
	every 50 hours
Change engine oil filter	every 50 hours
Replace air filter element	. annually or every 100 hours
Replace spark plugs	every 100 hours
Change hydrostat fluid & fluid filter	100 hours break-in and
	every 500 hours

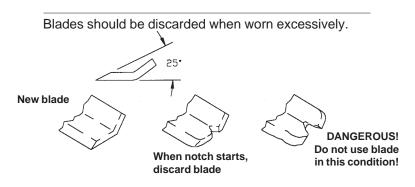
CAUTION

Stop engine and remove ignition key for safety. Wear heavy, thick gloves when holding onto cutter blade, avoid the sharp edge of the blade.

## **CUTTER BLADE MAINTENANCE**

Check sharpness of mower blades after every 10 hours of operation. Observe proper blade position prior to removal.

- 1. Safely raise front of mower.
- 2. Hold or block blade from turning.
- 3. Loosen blade bolt and remove blade.
- When replacing blade, tighten blade bolt securely. Tighten blade bolt to 60 ft. lbs. (81Nm)



## BELTS

Check belts every 100 hours. Replace any belts showing signs of severe cracking or large nicks. Belts are not adjustable, replace if they begin to slip from wear.

### **BELT TENSION**

#### **Engine to Mower Deck Belt**

To adjust tension of the mower deck drive belt, turn adjuster nut on threaded eyebolt. Turning nut clockwise will make the belt tighter. Turning nut counterclockwise will loosen the belt.

## ENGINE

For complete maintenance and operating information of the engine, please refer to the maintenance instructions furnished by the engine manufacturer and included in your Zero Turn Radius mower information packet.

## BATTERY

This is a maintenance-free battery and the fluid level cannot be checked. Charge battery if required.

### **OFF SEASON BATTERY STORAGE**

- DO NOT remove battery from mower.
- Clean top of battery and terminals with baking soda and water.
- Identify each cable so they can be reconnected to the correct terminal.
- Disconnect cables from terminals. ALWAYS disconnect ground cable first and reconnect last.
- Charge battery.



Battery contains sulfuric acid electrolyte that is poisonous and corrosive.

## TIRES

Correct tire pressure is essential for efficient operation of the mower. Check tire pressure periodically. Inflate tires to the pressure listed below.

Front tires	15 PSI	(103 kPa)
Rear tires	15 PSI	(103 kPa)

#### Lug nuts or lug bolts should be checked regularly for tightness.

### LUBRICATION

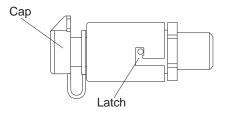
CHASSIS:	(13) grease zerks
LOCATIONS:	<ul><li>(4) front wheel casters</li><li>(3) mower deck hubs</li><li>(4) decklift shafts</li><li>(2) brake arms</li></ul>
SERVICE INTERVALS:	Every 50 hours of operation or once per season
RECOMMENDED GREASE:	Name brand wheel bearing or multipurpose grease (3 pumps each)

**CAUTION** HOT oil may cause burns. Allow engine to cool before draining oil.

## **CHANGING THE ENGINE OIL**

The EZ Drain oil plug is located on the left side of the engine crankcase.

- 1. Uncap the end of the drain plug and install the oil drain hose.
- 2. Place a suitable container under the drain hose.
- To drain, turn the drain plug counter-clockwise to unlatch. Pull the plug outward until it stops.
- After engine is drained, remove hose, recap end. Push in and turn the plug clockwise to relatch.



- 4. Change oil filter.
- 5. Fill with oil (see steps below).

NOTE: Refer to engine manufacturer's recommendations for frequency of oil changes.

### **OIL FILL**

- 1. Clean any spilled oil from engine and chassis.
- 2. Refill engine with type, and quantity of oil recommended by the engine manufacturer in engine literature.
  - NOTE: Engine oil changes on the Grizzly will require replacement of the oil filter. These filters may be available from your local Dixon Dealer.

## HYDROSTATIC TRANSMISSION FLUID AND FILTER SERVICE

Dirt or water in fluid can ruin the hydrostatic transmissions.

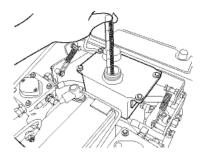
### SERVICE INTERVALS

- 1. Initial filter service 100 hours
- 2. Every 300 hours or once a year thereafter.

### MAINTENANCE PROCEDURE

Check the fluid level in hydrostatic transmission fluid reservoir daily.

Clean the fluid reservoir cap and the area around it prior to removal. Check the fluid level. Fluid should be approximately <sup>3</sup>/<sub>4</sub>" to 1" (19 - 25 mm) below top of fluid tank baffle. Replenish with full synthetic 15W-50 as needed. DO NOT OVERFILL. When checking the fluid level, be very careful to keep the reservoir clean. Check connections, hoses, and tubes for damage or leaks. Replace or repair if doubtful.



### **Changing Oil and Filters**

Oil and filter changes should be carried out by an authorized service workshop due to the risk of impurities enter the system.

### MOWER DECK LEVELING PROCEDURE

There are four (4) eyebolts that will control the attitude or pitch of the mower deck. The deck should be level or pitched slightly higher in rear.

1. Place the mower on a smooth level surface with front casters positioned towards deck. Check tire pressures to insure the mower has a correct stance. Inflate tires as required:

Front	15 lbs	(103 kPa)	
Rear:	15 lbs	(103 kPa)	
NOTE:	To insure accuracy of leveling procedure, mower deck		
	drive belt must be installed	prior to leveling deck.	

- 2. Wear heavy gloves. Turn each outer blade tip to align with the deck or in a side-to-side manner.
- 3. Measure from the floor surface up to the bottom of the blade tip on the discharge side of the mower. Retain this measurement. Move to the opposite side and check to see if that measurement is the same. If adjustment is required, turn nut on one or both of the front eyebolts until both measurements are equal.
- 4. Turn each outer blade tip to align with the deck in a front to rear manner.
- 5. Measure from the floor surface up to the bottom of the blade tips at both the front and rear of the blades. Rear of blade tips should be <sup>1</sup>/<sub>8</sub>" to <sup>1</sup>/<sub>4</sub>" higher than the front of blade tips. If adjustment is required, turn nut on one or both of the rear eyebolts until both measurements are equal.
  - NOTE: This will place the mower deck in a base measurement position. Additional adjustment may be required to achieve desired cut for the type of grass or conditions involved.

## **ELECTRICAL SYSTEMS**

Keep all connections clean and tight.

## **CLEANING THE MOWER**

Wash mower periodically. Clean above and below deck.

High pressure washing and alkaline based soaps can cause damage to bearings and other parts of the mower. After washing your mower, start the engine and engage the mower deck for a few minutes to disperse any water that may have accumulated in bearings, pulleys or fans.

Note: Allow mower to cool before washing. If bearings are hot, they will draw moisture inside as they dry and cause corrosion.

## SERIAL NUMBERS

The serial number is located on frame at rear of engine.

## WARRANTY

Refer to warranty information.

## PARTS/SERVICE

See your Dixon dealer for replacement parts, warranty or service.

## **STANDARD SERVICE PARTS LIST**

### BLADES

#### 52" Deck

#### 60" Deck

* Hi Lift Fusion	P/N 539 117911
Gator Fusion	P/N 539 118035
Hi-Lift	P/N 539 118272
Lo-Lift Fusion	P/N 539 117973

* Hi Lift Fusion	P/N 539 119840
Spr Hi-Lift Fus	P/N 539 119801
Gator Fusion	P/N 539 119875
Lo-Lift Fusion	P/N 539 119873
Hi-Lift	P/N 539 119871
Standard Lift	P/N 539 119872

#### 72" Deck

* Hi Lift Fusion	P/N 539 119841
Spr Hi-Lift Fus	P/N 539 119802
Std Lift Fusion	P/N 539 119878
Hi-Lift	P/N 539 119876
Std Lift	P/N 539 119877

\* Factory installed

### BELTS

#### 52" Deck

Engine to Mower Deck	P/N 539 114550
Engine to Hydros	P/N 539 104334
60" Deck	
Engine to Mower Deck	P/N 539 112529
Engine to Hydros	P/N 539 104334
72" Deck	
Engine to Mower Deck	P/N 539 114552
Engine to Hydros	P/N 539 104334

### ENGINE AIR AND OIL FILTERS

Refer to Engine Operator's Manual for correct service intervals for engine oil changes and air filter maintenance.

Protect your engine investment, use only original equipment filters. Refer to the Engine Operator's Manual or ask your dealer for correct replacement parts.

# TROUBLESHOOTING

#### 1. ENGINE WON'T TURN OVER

Mower blades engaged	disengage blades
Park brake not on	engage park brake
Dead battery	charge or replace
Solenoid	consult dealer
Ignition switch	consult dealer
Starter	consult dealer

#### 2. ENGINE WILL TURN OVER BUT WON'T START

No fuel ----- refuel and/or clean or replace fuel filters

#### 3. HARD TO START ENGINE

Fuel line clogged	 clean fuel line and check fuel filte	er
Faulty fuel pump	 consult deale	er

#### 4. ENGINE STARTS BUT CUTS OUT

Water in fuel	drain old fuel-replace with new fuel
Clogged fuel line	check fuel filter
Fuel tank vent plugged	clean fuel vent
Faulty fuel pump	consult dealer

#### 5. ENGINE OVERHEATED

Air intake screen or fins clogged	 clean intake	screen and fins
Oil level too low or too high	 	- adjust oil level
Running engine too slow	 r	un engine faster

# TROUBLESHOOTING

6. ENGINE RUNS BUT MOWER WON'T MOVE FORWARD
Drive belt broken or slipping replace drive belt
Transmission oil low add oil
Damaged transmission consult dealer
Transmission bypass may be engaged disengage (see page 38)

#### 7. MOWER LOSES POWER OR TRANSMISSION OVERHEATS Engine air filter - - - - - clean or replace Transmission damage - - - - consult dealer

#### 8. ENGINE STALLS WHEN BLADES ARE ENGAGED

Operator not on seat sit on seat
Faulty interlock system consult dealer
Faulty blade spindle bearing consult dealer
Deck drive belt not properly routed reroute
Blades blocked by foreign material clean under deck

#### 9. DRIVE SYSTEM

Mower pulls to side check	k tire infla	ation/	consult dealer
Mower creeps in neutral		(	consult dealer
Low on power		chec	k belt tension

#### 10. CUT QUALITY

Cut uneven left to right	check tire inflation/level deck
Ends of grass blades are ragged	sharpen blades
Poor dispersal of grass	clean deck/check for loose belt
Skips in spots che	eck for loose belt/slow ground speed



## **OWNER'S INFORMATION**

Date of Purchase _		
Mower Model Numb	per	
Mower Serial Numb	er	
Purchased From _		
-		
-		
DATE OIL CHANG	ED	DATE ENGINE TUNED

Dixon ~401 North Commerce Street~Beatrice, NE~68310 ~402-223-1000~Fax 402-223-1053



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WARNING The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

DIXON 401 Commerce Street Beatrice, NE 68310

Grizzly Series Part No. 539 114590R1